

# RESTRICTED USE PESTICIDE

DUE TO ACUTE ORAL AND DERMAL TOXICITY AND BIRD TOXICITY

For retail sale to and use only by Certified Applicators or persons under the direct supervision of a Certified Applicator, and only for those uses covered by the Certified Applicator's certification.

24(c) REGISTRATION  
FOR DISTRIBUTION AND USE ONLY IN THE STATE OF IDAHO

## HOLDEM<sup>TM</sup> Brand Granular Nematicide Insecticide

NOT FOR DOMESTIC USE

### ACTIVE INGREDIENTS:

Ethoprop: (O-Ethyl S, S-Dipropyl Phosphorodithioate) .....10.0%  
Phorate: (O,O-Diethyl S-((Ethylthio) Methyl) Phosphorodithioate).....10.0%

INERT INGREDIENTS.....80.0%

EPA EST. NO.

EPA SLN NO.ID-910003



**KEEP OUT OF REACH OF CHILDREN**  
**DANGER POISON**  
**PELIGRO**



**PRECAUCION AL USARIO:** Si usted no lee ingles, no use este producto hasta que le etiqueta haya sido explicado ampliamente.  
**(PRECAUTION TO THE USER:** If you cannot read English, do not use this product until the label has been fully explained to you.)

For **MEDICAL** and **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-334-7577

For **PRODUCT USE** Information Call 1-800-334-9745

### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Give 1 or 2 glasses of water to drink and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Call a physician, Poison Control Center or hospital emergency room. If not breathing, give mouth to mouth artificial respiration.

**IF IN EYES:** Flush eyes with plenty of water for at least 15 minutes and get medical attention.

**IF ON SKIN:** Immediately remove all contaminated clothing and wash skin with soap and water. Wash clothing before reuse. Discard contaminated shoes.

**IF INHALED:** Remove victim to fresh air. If not breathing, give mouth to mouth artificial respiration. Get medical attention immediately.

Call a physician immediately in all cases of suspected poisoning.

Persons providing first aid should prevent contamination of themselves.

### NOTE TO PHYSICIAN

This product is a cholinesterase inhibitor. Severe symptoms and signs include diarrhea, pinpoint and non-reactive pupils, respiratory difficulty, pulmonary edema, cyanosis, loss of sphincter control, convulsions, and coma. Support respiration as needed. Measures should include removal of secretions, maintenance of a patent airway, and if necessary, artificial ventilation.

If cyanosis is absent, give ATROPINE 2-4 mg intravenously (0.05 mg/kg for children). Repeat atropine at 5-10 minute intervals until atropinization occurs (dry, flushed skin, tachycardia, pupillary dilatation), and maintain for 48 hours. If cyanotic, give initial atropine intramuscularly and start measures to improve ventilation.

Start 2-PAM (PROTOPAM, Ayerst) at the same time. Give 1-2 grams PROTOPAM (20-40 mg/kg for children) in 100cc saline over 15-30 minutes. If pulmonary edema is present, give intravenously slowly as a 5% solution in water over a period of at least 5 minutes. A second dose may be given after one hour if muscle weakness persists. Additional doses may be given cautiously for persistent muscle weakness. May be given by intramuscular or subcutaneous routes if intravenous administration is not feasible.

In case of skin contact, wash patient with soap and water followed by wash with 95% ethyl alcohol. Keep patient under constant observation for 24-36 hours. Symptoms may persist for one month.

The use of theophylline, morphine, barbiturates, phenothiazines, reserpine, and succinyl choline is contraindicated.

Allow no further exposure to any cholinesterase inhibitor until cholinesterase regeneration has taken place as determined by blood tests.

# PRECAUTIONARY STATEMENTS

## DANGER

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.** Do not breathe dust. Do not get in eyes, on skin or on clothing. Rapidly absorbed through skin. Repeated inhalation or skin contact may, without symptoms, progressively increase susceptibility to poisoning.

Wear protective clothing including rubber gloves. In case of contact, wash immediately with soap and water. Do not breathe fumes or dust. Wear a mask or pesticide respirator jointly approved by the Mining Enforcement & Safety Administration and the National Institute for Occupational Safety and Health. After use, wash hands, arms and face thoroughly with soap and warm water before eating, drinking or smoking. Wash all clothing with soap and hot water before reuse. Discard contaminated shoes. Do not contaminate feed or food.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Nausea, vomiting, abdominal cramps, diarrhea, excessive salivation, headache, dizziness, weakness, blurring or dimness of vision, excessive tearing, loss of muscular coordination, slurring of speech, twitching of muscles (especially of tongue and eyelids), mental confusion, disorientation, drowsiness, difficulty in breathing (chest tightness), runny nose.

**ANTIDOTE STATEMENT:** ATROPINE IS AN ANTIDOTE. See "NOTE TO PHYSICIAN".

### ENVIRONMENTAL HAZARDS

**TOXIC TO FISH, BIRDS, AQUATIC INVERTEBRATES AND OTHER WILDLIFE.** This product is toxic to fish, birds, aquatic invertebrates and other wildlife. Birds and other wildlife feeding in treated areas may be killed. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Keep out of lakes streams and ponds. Do not contaminate water when cleaning equipment or disposing of wastes. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Cover or incorporate granules that are spilled during loading or are visible on soil surface in turn areas. Apply this product only as specified on the label.

### ENDANGERED SPECIES

**NOTICE:** Under the Endangered Species Act, it is a Federal Offense to use any pesticide in a manner that results in the death of a member of an endangered species.

## DIRECTIONS FOR USE

**It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.**

**Read the entire label before using this product.**

### GENERAL WORKER PROTECTION AND REENTRY STATEMENTS

Do not apply this product in such a manner as to directly expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not enter treated areas for 24 hours unless appropriate protective clothing, gloves and goggles are worn. Protective clothing means at least a hat or other suitable head covering, a long-sleeved shirt and long-legged trousers or a coverall type garment (all of closely woven fabric covering the body, including the arms and legs), shoes and socks.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers.

Written or oral warnings must include the following information:

#### **Danger**

(Insert area or field description) treated with phorate and ethoprop on (insert date of application). Do not enter treated area for 24 hours unless appropriate protective clothing, goggles and gloves are worn. In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to phorate and ethoprop and describe his condition. For further information see the "STATEMENT OF PRACTICAL TREATMENT" portion of the pesticide label.

## STORAGE AND DISPOSAL

### PROHIBITIONS

Do not store in or around the home or home garden. Do not contaminate water, food or feed by storage disposal. Open dumping is prohibited. Do not reuse empty container. Do not store under conditions which might adversely affect the container or its ability to function properly. Such conditions include, but are not limited to, positioning of the container in storage, storage temperature, potential for crushing or damage due to stacking, and prevention of moisture.

### STORAGE

Store in a safe manner. Store in original container only. Store in a cool, dry, well ventilated place. Keep container tightly closed when not in use. Once bag has been opened use it completely. Reduce stacking height where local conditions, such as humidity or pallet overhang, can affect package strength. Personnel should use clothing and equipment listed under "PRECAUTIONARY STATEMENTS" when handling open containers.

### SPILLED MATERIAL

If container is broken, before cleaning up, put on protective clothing and rubber gloves. Do not get granules on skin or in eyes. Do not breathe dust. Always stand upwind from spills when cleaning up. Scoop and sweep into a disposable container. Bury any small spills at least 18 inches deep in soil, isolated from water supplies and food crops.

### PESTICIDE DISPOSAL

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide granules, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticides or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### CONTAINER DISPOSAL

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## GENERAL CAUTIONS AND RESTRICTIONS

### PRE-HARVEST, GRAZING AND ENVIRONMENTAL LIMITATIONS STATEMENTS

Use HOLD-EM™ Brand Granular Nematicide-Insecticide only in accordance with label directions, warnings and cautions. **DO NOT USE ON ANY CROP NOT LISTED ON THIS OR SUPPLEMENTAL LABELING AS ANY RESIDUES REMAINING MAY BE ILLEGAL OR HARMFUL. DO NOT STORE OR USE IN OR AROUND THE HOME OR HOME GARDEN.**

### POTATO

#### TO AVOID ILLEGAL RESIDUES:

\*Do not make more than one application per year.

\*Do not harvest within 90 days of application.

\*Do not use HOLD-EM™ Brand Granular Nematicide-Insecticide if other products containing either ethoprop (MOCAP®) or phorate have been or are expected to be used.

\*Minimum row spacing 32 inches.

### APPLICATION STATEMENTS

Calibrate and adjust application equipment to insure proper rate and accurate placement. Clean application equipment thoroughly after use. For any leftover material, see instructions for "STORAGE AND DISPOSAL".

Granules lying on the soil surface in turn areas at row ends should be incorporated to remove hazard to birds and other wildlife.

## SPECIFIC USE DIRECTIONS

### POTATOES

CROP	APPLIC. TIMING	PESTS CONTROLLED	RATE OF HOLD-EM™	APPLICATION DIRECTIONS
POTATO	At planting	Aphids Leafhoppers Wireworms Lesion nematode  Suppression of Colorado potato beetle	2.1 lb per 1000 linear foot of row	Apply in the open furrow using a 6 inch row bander placed immediately behind the opening shoe and ahead of closing disks. Uniformly distribute granules in the furrow, level with and directly behind seed pieces.

USE RATES AS POUNDS PER ACRE FOR  
TYPICAL APPLICATION RATES  
FOR VARIOUS ROW SPACINGS

Row spacing in inches	2.1 Pounds/ 1000 Ft. of Row
40	26.9
38	28.3
36	29.9
34	31.7
32	33.7

## LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants, and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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Research Triangle Park, North Carolina 27709  
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